Docket No.000875

As a book named insentor, I hereby declare that:

My residence, possessifice address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled **ADAPTIVE ANTENNA OPTIMIZATION NETWORK** 

specification of which (che	eck one):		, the
	_ is attached hereto		
<del></del>	_ was filed on	as Application Serial No.	
		, if applicable	-
I hereby state that I have reby any amendment referred	eviewed and understand the contents of the device.	the above-identified specification, including th	e claims, as amended
I acknowledge the duty to Code of Federal Regulatio	disclose information which is material tons, Section 1.56(a).	o the examination of this application in accorda	ance with Title 37,
mitches a continuate mateu	rity benefits under Title 35, United Stat below and have also identified below ar e application on which priority is claime	es Code, Section 119 of any foreign application ny foreign application for patent or inventor's c ed:	n(s) for patent or ertificate having a
Prior Foreign Application(	s)		Priority Claimed
(Number)	(County)	(Date/Month/Year Filed)	Yes No
provided by the first paragras defined in Title 37, Cod	raph of Title 35. United States Code Se	ion 120 of any United States applications listed disclosed in the prior United States application ction 112, I acknowledge the duty to disclose the which occurred between the filing date of the	n in the manner
(Application Serial N	Jo.) (Filing Date)	(Status: patented, pending, abando	oned)
(Application Serial N	Jo.) (Filing Date)	(Status: patented, pending, abando	oned)
I hereby appoint the follow	ring attorney(s) to prosecute this applica	tion and to transact all business in the Patent a	nd Trademark Office

I hereby appoint the following attorney(s) to prosecute this application and to transact all business in the Patent and Trademark Office connected herewith: Lynn J. Alstadt, Reg. No. 29,362; George P. Baier, Reg. No. 26,717; Dennis M. Carleton, Reg. No. 40,938; Michael L. Dever, Reg. No. 32,216; John E. Grosselin, III, Reg. No. 38,478; Bryan H. Opalko, Reg. No. 40,751; Michael G. Panian, Reg. No. 32,623; and Carla J. Vrsansky, Reg. No. 36,958.

Address all telephone calls to Bryan H. Opalko

Address all correspondence to

Buchanan Ingersoll Professional Corporation
One Oxford Centre

301 Grant Street, 20th Floor

Pittsburgh, Pennsylvania 15219-1410

412-562-1893

Full name of sole or first inventor Pau Dent	
	Date 24 JAN 2001
Residence County of Chatham, State of North Carolina	Citizenship USA
Post Office ddress 637 Eagle Point Road, Pittsboro, North Carol	ina 27312
WIN 25 2001  WATE TRADELIES  Full name of second joint inventor Howard Eugene Holshouser	
Inventor's Signature	Dut
Residence County of Orange, State of North Carolina	Date USA
Post Office Address 3701 Carrington Lane, Efland, North Carolina	Chizciship
Full name of third joint inventor John Charles Phillips Inventor's Signature	Date
Full name of third joint inventor John Charles Phillips	
	Date
Residence County of Wake, State of North Carolina	CitizenshipUSA
Post Office Address 9916 Bonsal Crossing, Newhill, North Carol	ina 24857
Full name of fourth joint inventor Rod Dolman  Inventor's Signature  Residence County of Bedford, State of Virginia	•
Post Office Address 108 LaFayette Place, Forest, Virginia 2455	<u> </u>
Full name of fifth joint inventor Ron Boesch	
Inventor's Signature	
Residence County of Wake. State of North Carolina	Citizenship USA

Post Office Address 106 Fentress Court, Morrisville, North Carolina 27560

Docket No.000875

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I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled **ADAPTIVE ANTENNA OPTIMIZATION NETWORK** 

specification of which (chec	k one):	, t	he
X	is attached hereto was filed on and was amended on	as Application Serial No, if applicable	
hereby state that I have revoy any amendment referred	viewed and understand the contents to above.	s of the above-identified specification, including the claims, as amend	ded
acknowledge the duty to de Code of Federal Regulations	isclose information which is mater s, Section 1.56(a).	ial to the examination of this application in accordance with Title 37	,
The state of the s	ity benefits under Title 35, United below and have also identified belo application on which priority is cl	States Code, Section 119 of any foreign application(s) for patent or we any foreign application for patent or inventor's certificate having a aimed:	ì
Prior Foreign Application(s)	)	Priority Claim	ed
(Number)	(County)	— Yes No (Date/Month/Year Filed)	
provided by the first paragrass defined in Title 37, Code	uph of Title 35. United States Code	Section 120 of any United States applications listed below and, insoft is not disclosed in the prior United States application in the manner e, Section 112, I acknowledge the duty to disclose material information 56(a) which occurred between the filing date of the prior application :	
(Application Serial No	o.) (Filing Date)	(Status: patented, pending, abandoned)	
(Application Serial No	o.) (Filing Date)	(Status: patented, pending, abandoned)	
hereby appoint the Calland			

I hereby appoint the following attorney(s) to prosecute this application and to transact all business in the Patent and Trademark Office connected herewith: Lynn J. Alstadt, Reg. No. 29,362; George P. Baier, Reg. No. 26,717; Dennis M. Carleton, Reg. No. 40,938; Michael L. Dever, Reg. No. 32,216; John E. Grosselin, III, Reg. No. 38,478; Bryan H. Opalko, Reg. No. 40,751; Michael G. Panian, Reg. No. 32,623; and Carla J. Vrsansky, Reg. No. 36,958.

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412-562-1893

Full name of sole or first inventor Pau. Dent	
Inventor's Circulature	Date
Residence County of Chatham, State of North Carolina	Citizenship USA
Post office Address 637 Eagle Point Road, Pittsboro, North Carolin	
ILE ROS	
S MON W	
MM 2 3	
Full name second joint inventor Howard Eugene Holshouser	
Inventor's Signature / Swarf Sugar / Holdonne	Date 18 January 2001
Residence County of Orange, State of North Carolina	Citizenship USA
Post Office Address 3701 Carrington Lane, Efland, North Carolina	27243
Full name of third joint inventor John Charles Phillips	
Inventor's Signature	Data
Residence County of Wake, State of North Carolina	Date
Post Office Address 9916 Bonsal Crossing, Newhill, North Carolina	CitizenshipUSA 1
	24037
Full name of fourth joint inventor Rod Dolman	
	Date
Residence County of Bedford, State of Virginia	
Post Office Address 108 LaFayette Place, Forest, Virginia 24551	
·	
Full name of fifth joint inventor Ron Boesch	
Inventor's Signature	
	Date
Residence County of Wake. State of North Carolina	Date

Docket No. 000875

As a below-named inventor, thereby declare that:

My residence post office and dress and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled <a href="https://doi.org/10.1007/names.com/n

specification of which (o	check one):	, the
	is attached hereto	— <del>——</del>
	and	as Application Serial No.
		, if applicable
I hereby state that I have by any amendment refer	e reviewed and understand the contents of red to above.	the above-identified specification, including the claims, as amended
I acknowledge the duty t Code of Federal Regulat	to disclose information which is material to ions, Section 1.56(a).	o the examination of this application in accordance with Title 37,
I hereby claim foreign pr inventor's certificate liste filing date before that of	niority benefits under Title 35, United Stated below and have also identified below at the application on which priority is claimed.	es Code, Section 119 of any foreign application(s) for patent or ny foreign application for patent or inventor's certificate having a ed:
Prior Foreign Application	n(s)	Priority Claimed
(Number)	(County)	(Date/Month/Year Filed)  Yes No
provided by the first para as defined in Title 37, Co	graph of Title 35 United States C. 1. G.	ion 120 of any United States applications listed below and, insofar disclosed in the prior United States application in the manner ction 1.12, I acknowledge the duty to disclose material information which occurred between the filing date of the prior application and
(Application Serial	No.) (Filing Date)	(Status: patented, pending, abandoned)
(Application Serial	No.) (Filing Date)	(Status: patented, pending, abandoned)
hereby appoint the follo	wing attorney(s) to prosecute this applicate	· · · · · · · · · · · · · · · · · · ·

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Pittsburgh, Pennsylvania 15219-1410

412-562-1893

Full name of sole or first inventor Pau Dent	
Inventor's Signature	Date
Country of Chathan Chathan C V 11 C 11	
Residence County of Chatham, State of North Carolina  Office Address 637 Eagle Point Road, Pittsboro, North Carolina	a 27312
Full-manne of second joint inventor Howard Eugene Holshouser	
Inventor's Signature	Date
Residence County of Orange, State of North Carolina	Citizenship USA
Post Office Address 3701 Carrington Lane, Efland, North Carolina	27243
Full name of third joint inventor John Charles Phillips	
	Date 1/19/01
Residence County of Wake, State of North Carolina	Citizenship USA
Post Office Address 9916 Bonsall Crossing, NewHill, North Carolina	<del>24851</del> 27562
Full name of fourth joint inventor Rod Dolman	
Inventor's Signature	
Residence County of Bedford, State of Virginia	
Post Office Address 108 LaFayette Place, Forest, Virginia 24551	
Full name of fifth joint inventor <u>Ron Boesch</u>	
Inventor's Signature	Date
Residence County of Wake, State of North Carolina	Citizenship <u>USA</u>
Post Office Address 106 Fentress Court, Morrisville, North Carolin	

As a below-named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled <a href="https://doi.org/10.1007/ncm.network">ADAPTIVE ANTENNA OPTIMIZATION NETWORK</a>

is attached hereto  was filed on as Application Serial No and was amended on, if applicable  state that I have reviewed and understand the contents of the above-identified specification, including the series of the specification including the series of the above-identified specification.	laims, as am	, the
is attached hereto was filed on as Application Serial No, if applicable  and was amended on, if applicable  state that I have reviewed and understand the contents of the above-identified specification, including the contents of the above-identified specification, including the contents of the above-identified specification.	laims, as am	and d
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because it is to reduce and understand the contents of the above-identified specification including the	laims, as am	
by any amendment referred to above.		ended
I acknowledge the duty to disclose information which is material to the average of the day of the second of the se		
Code of Federal Regulations, Section 1.56(a).	e with Title	37,
I hereby claim foreign priority benefits under Title 35, United States Code, Section 119 of any foreign application(s inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certifiling date before that of the application on which priority is claimed:	) for patent o	or g a
priority is claimed.	`	<b>.</b>
Prior Foreign Application(s)	Priority Clai	imed
(Number) (County) (Date/Month/Vear Filed)	Yes N	lo
(Date/Month/Year Filed)		
I hereby claim the benefit under Title 35, United States Code, Section 120 of any United States applications listed be as the subject matter of each of the claims of this application is not disclosed in the prior United States application in provided by the first paragraph of Title 35, United States Code, Section 1.12, I acknowledge the duty to disclose mat as defined in Title 37, Code of Federal Regulations, Section 1.56(a) which occurred between the filing date of the protection of the providence of the providence of the protection of the prote	the manner	
(Application Serial No.) (Filing Date) (Status: patented, pending, abandoned	d)	
(Application Serial No.) (Filing Date) (Status: patented, pending, abandoned	i)	

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412-562-1893

Full name of sole or first inventor Paul Dent	
Inventor's Cignoture	Date
Residence County of Chatham, State of North Carolina	Citizenship USA
Post Price Address 637 Eagle Point Road, Pittsboro, North Carolin	Chizenship
O'Y E 30/6g	
MAT S	
Party of the cond joint inventor Howard Eugene Holshouser	
Inventor's Signature	Date
Residence County of Orange, State of North Carolina	Citizenship USA
Post Office Address _ 3701 Carrington Lane, Efland, North Carolina	Chizenship
•	
Full name of third joint inventor John Charles Phillips	
Inventor's Signature	Date
Residence County of Wake, State of North Carolina	Citizenship USA
Post Office Address 9916 Bonsal Crossing, Newhill, North Carolina	
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Full name of fourth joint-inventor Rod-Dolman	2
Full name of fourth joint inventor Rod Dolman  Inventor's Signature Control of Control o	A Company of the Comp
Inventor's Signature folgo	Date 01/23/2005 200 14
Residence County of Bedford, State of Virginia	Citizenship USA
Inventor's Signature folgo	Citizenship USA
Residence County of Bedford, State of Virginia	Citizenship USA
Residence County of Bedford, State of Virginia	Citizenship USA
Residence County of Bedford, State of Virginia	Citizenship USA
Residence County of Bedford, State of Virginia  Post Office Address 108 LaFayette Place, Forest, Virginia 24551	Citizenship
Residence County of Bedford, State of Virginia  Post Office Address 108 LaFayette Place, Forest, Virginia 24551  Full name of fifth joint inventor Ron Boesch	Citizenship
Inventor's Signature  Residence County of Bedford, State of Virginia  Post Office Address 108 LaFayette Place, Forest, Virginia 24551  Full name of fifth joint inventor Ron Boesch  Inventor's Signature	Citizenship
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is attached was filed and was a	onas	Application Serial No.	
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I hereby claim foreign priority benefits inventor's certificate listed below and h filing date before that of the application	under Title 35, United States ( ave also identified below any i n on which priority is claimed:	Code, Section 119 of any foreign applicatio foreign application for patent or inventor's o	on(s) for patent or certificate having a
Prior Foreign Application(s)			Priority Claimed
(Number)	(County)	(Date/Month/Year Filed)	Yes No
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(Application Serial No.)	(Filing Date)	(Status: patented, pending, abando	oned)
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I DETERNY STRAINT the tellers are -44.	/- <b>X</b>		

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Inventor's Signaturel  Residence County of Chatham, State of North Carolina	Date
Post Office Add 627 Regio Point P. 1 Print	Citizenship USA
Conce Address Controller Road, Pittsboro, North Carolin	a 27312
100 K	
Inventor's Signature	
aremor's Signature	Pate
Residence County of Orange, State of North Carolina	Citizenship USA
Post Office Address 3701 Carrington Lane, Efland, North Carolina	27243
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full name of third joint inventor John Charles Phillips	
nventor's Signature D	nto
Residence County of Wake, State of North Carolina	ate
ost Office Address 9916 Bonsal Crossing, Newhill, North Carolina	_ CitizenshipUSA
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ull name of fourth joint inventor. Pod. Dollars	
ull name of fourth joint inventor <u>Rod Dolman</u>	
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esidence County of Bedford, State of Virginia ost Office Address 108 LaFayette Place, Forest, Virginia 24551  all name of fifth joint inventor Ron Boesch	_ Citizenship USA
esidence <u>County of Bedford, State of Virginia</u> ost Office Address <u>108 LaFayette Place, Forest, Virginia</u> 24551	_ Citizenship <b>USA</b>